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Virginia Nather, Ward Sangren

January 1959 **Communications of the ACM**, Volume 2 Issue 1

Publisher: ACM Press

Full text available: [pdf\(3.51 MB\)](#)

Additional Information: [full citation](#)

2 [Vector and parallel processing of the nuclear reactor transient analysis code RELAPS](#)



M. Ishiguro, M. Makino, N. Shinozawa

November 1988 **Proceedings of the 1988 ACM/IEEE conference on Supercomputing Supercomputing '88**

Publisher: IEEE Computer Society Press

Full text available: [pdf\(720.07 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

An experiment of vector processing and multi-tasking of nuclear reactor transient analysis code RELAP5 has been made at Japan Atomic Energy Research Institute. Vector processing and multi-tasking of the RELAP5 were achieved by using the independency of the spatial meshes. The vectorization ratio is 83% The performance ratio in the vector mode to that in the scalar mode is about 3 on the FACOM VP-100. For multi-tasking, the spatial meshes are halved and each group of meshes is processed on d ...

3 [NUFACTS: A tool for the analysis of nuclear development policies](#)



Mark B. Triplett, Theodore L. Willke, John D. Waddell

January 1977 **Proceedings of the 9th conference on Winter simulation - Volume 2 WSC '77**

Publisher: Winter Simulation Conference

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Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

NUFACTS, the Nuclear Fuel Cycle Activity Simulator, is a combined continuous/discrete simulation of the nuclear power economy. This model has been useful in the evaluation of nuclear development policies as it projects the economic and resource impacts attributable to a given policy. A recent application of NUFACST has involved the economic evaluation of plutonium recycle options in light-water reactors. Based upon the GASP IV simulation language, NUFACST provides a highly flexib ...


4 Abstracts— additional nuclear reactor codes ☐



Virgina Nather, Ward Sangren

January 1960 **Communications of the ACM**, Volume 3 Issue 1

Publisher: ACM Press

Full text available:  [pdf\(940.91 KB\)](#) Additional Information: [full citation](#)


5 The role of computer systems in the nuclear power debate ☐



Kevin W. Bowyer

April 1980 **ACM SIGCAS Computers and Society**, Volume 10 Issue 3-4

Publisher: ACM Press

Full text available:  [pdf\(489.92 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

One of the primary reasons for the current "decline" of nuclear power is that reactors have not operated reliably. This unreliability has raised questions of both safety and economics. Computer systems have been a part of this failure of technology. If nuclear power is to be revived as an energy option for our country, both the quantity and quality of computer applications must increase.

6 A diagnostic expert system for analyzing multiple-failure transients in nuclear power plants ☐



Robert P. Martin, B. Nassersharif

June 1988 **Proceedings of the 1st international conference on Industrial and engineering applications of artificial intelligence and expert systems - Volume 1 IEA/AIE '88**

Publisher: ACM Press

Full text available:  [pdf\(515.98 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

CATALISP (Computer Aided Transient Analysis coded in Lisp) is a prototype expert system which is the result of a project investigating and implementing event confidence-levels (used by reactor safety experts in reactor transient analysis) in the form of an expert system. Currently, CATALISP is designed to diagnose reactor transients by analyzing simulated sensor and plant thermal hydraulic information from a system simulation. CATALISP uses a knowledge base of existing emergency nuclear pla ...

7 A combined simulation model of the nuclear fuel cycle ☐

E. L. DePorter, Harold A. Kurstedt, Joel A. Nachlas

December 1977 **Proceedings of the 9th conference on Winter simulation - Volume 1 WSC '77**

Publisher: Winter Simulation Conference

Full text available:  [pdf\(327.18 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Strategies for dealing effectively with the complex nuclear fuel cycle are needed to assure the availability of the required nuclear energy portion of U.S. energy supplies. The vertical integration approach to assuring uranium fuel supplies is achieved through control or ownership of fuel cycle stages. Global system analysis is facilitated by identifying crucial control points in the fuel cycle. A GASP IV simulation model of the production and inventories of the sequentially prod ...

8 Highly vectorized algorithm for transient simulation of space reactor systems ☐

B. Nassersharif, J. S. Peery, M. D. DeHart

November 1988 **Proceedings of the 1988 ACM/IEEE conference on Supercomputing Supercomputing '88**

Publisher: IEEE Computer Society Press

Full text available:  [pdf\(765.38 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Current interest in the application of nuclear reactor driven power systems to space missions has generated a need for an accurate systems model which is capable of handling the nonlinear transient simulation of such systems [1],[2]. A project to develop a code specifically designed to model and analyze space reactor systems is currently ongoing at Texas A&M. This code, named CENTAR (Code for Extended Nonlinear Transient Analysis of Extraterrestrial Reactors [3],[4]), is written especia ...

9 GASP IV simulation of nuclear waste

Jeffery Lee Turek, Elden L. Deporter, Harold A. Kurstedt, Charles E. Rasbach, Steven K. Funk
January 1981 **Proceedings of the 13th conference on Winter simulation - Volume 1 WSC '81**

Publisher: IEEE Press

Full text available:  [pdf\(521.33 KB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

The current governmental research and development program for the disposition of high-level nuclear wastes from both defense and commercial sources is modelled using a discrete GASP IV based simulation. The simulation utilizes, as input, actual and current data from various DOE management information systems. A sampling of disposition data contained within these systems are milestones, storage facility capacities, and predecessor and successor relations. Decision variables include facility ...


10 Nuclear power plant diagnostics in APL



Alexander O. Skomorokhov

July 1991 **ACM SIGAPL APL Quote Quad , Proceedings of the international conference on APL '91 APL '91**, Volume 21 Issue 4

Publisher: ACM Press

Full text available:  [pdf\(903.20 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We are interested in the development of Nuclear Power Plant (NPP) diagnostic systems and other complex systems of data processing. There are some questions on the subject: How to build these systems easily? How to build them fast? How to build them at a low price? And how to build them to be user friendly? Today, from our point of view, in the area of Nuclear Power Plant diagnostics, there is only one answer to these questions: We must use APL.

11 Genetic algorithms: Application of genetic algorithm to optimize burnable poison placement in pressurized water reactors



Serkan Yilmaz, Kostadin Ivanov, Samuel Levine

June 2005 **Proceedings of the 2005 conference on Genetic and evolutionary computation GECCO '05**

Publisher: ACM Press

Full text available:  [pdf\(1.47 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

An efficient and a practical genetic algorithm tool was developed and applied successfully to Burnable Poisons (BPs) placement optimization problem in the reference Three Mile Island-1 (TMI-1) core. Core BP optimization problem means developing a BP loading map for a given core loading configuration that minimizes the total Gadolinium (Gd) amount in the core without violating any design constraints. The number of UO₂/Gd₂O₃ pins and Gd₂O₃ con ...

Keywords: burnable poison, decision variables, gadolinium, genetic algorithm, nuclear, optimization, reactor

12 Procedure writing across domains: nuclear power plant procedures and computer documentation

-  Douglas R. Wieringa, David K. Farkas
October 1991 **Proceedings of the 9th annual international conference on Systems documentation SIGDOC '91**


Publisher: ACM Press

Full text available:  pdf(852.26 KB) Additional Information: [full citation](#), [references](#), [index terms](#)

13 Microprocessor applications in the nuclear industry 

-  C. Dwayne Ethridge
April 1980 **ACM SIGCAS Computers and Society**, Volume 10 Issue 3-4

Publisher: ACM Press

Full text available:  pdf(986.50 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

Microprocessors in the nuclear industry, particularly at the Los Alamos Scientific Laboratory, have been and are being utilized in a wide variety of applications ranging from data acquisition and control for basic physics research to monitoring special nuclear material in long-term storage. Microprocessor systems have been developed to support weapons diagnostics measurements during underground weapons testing at the Nevada Test Site. Multiple single-component microcomputers are now controlling ...

14 Pressurized water reactor [PWR] system simulation and disturbance analysis for anomalous transients and degraded system conditions 

V. K. Dhir, S. Guarro, J. C. Lin, M. Motamed, D. Okrent

December 1979 **Proceedings of the 11th conference on Winter simulation - Volume 1 WSC '79**

Publisher: IEEE Press

Full text available:  pdf(816.53 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper potential applications of disturbance analysis to improve availability and safety of light water reactors (LWR's) are discussed. Needs for developing on-line computer aided guidance to the reactor operator during anomalous transients are pointed out. Currently available methods to simulate primary and secondary systems of a pressurized water reactor (PWR) during anomalous transients and other conditions severely degraded from normal operation are reviewed. Limitations of these ...

15 A systematic approach to the development and validation of critical software for nuclear power plants 


C. V. Ramamoorthy, F. B. Bastani, J. M. Favaro, Y. R. Mok, C. W. Nam, K. Suzuki
September 1979 **Proceedings of the 4th international conference on Software engineering ICSE '79**

Publisher: IEEE Press

Full text available:  pdf(911.14 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The power industry is becoming increasingly interested in the use of digital computers within nuclear plant protection systems in order to satisfy increased safety requirements, provide greater operating flexibility, minimize spurious forced outages, and (in conjunction with multiplexing) to meet separation requirements. However, the development and licensing of digital safety systems has been hindered to date by the difficulty of validating the software. A methodology is propose ...

16 Software safety: why, what, and how 

-  Nancy G. Leveson
June 1986 **ACM Computing Surveys (CSUR)**, Volume 18 Issue 2

Publisher: ACM Press

Full text available:  pdf(4.18 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index](#)

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Software safety issues become important when computers are used to control real-time, safety-critical processes. This survey attempts to explain why there is a problem, what the problem is, and what is known about how to solve it. Since this is a relatively new software research area, emphasis is placed on delineating the outstanding issues and research topics.

17 Computer based systems in boiling water reactors



J. N. Shukla, J. A. Iubelt

April 1980 **ACM SIGCAS Computers and Society**, Volume 10 Issue 3-4

Publisher: ACM Press

Full text available: pdf(474.71 KB) Additional Information: [full citation](#), [abstract](#)

This paper describes the application of computers to the General Electric Company's Boiling Water Reactor (BWR) type nuclear power plants. In the GE BWR plants, computers are used for Real Time Process Monitoring, Nuclear Steam Supply System Performance and Core Limit Evaluation, Balance of Plant Performance Evaluation, Historical Recording, and Control Rod Pattern Enforcement. These functions are performed by different systems and subsystems each consisting of one or more computers. This paper ...

18 Homeland security/emergency response: simulation for response: Training first responders to nuclear facilities using 3-D visualization technology



Robert L. Sanders, Joseph E. Lake

December 2005 **Proceedings of the 37th conference on Winter simulation WSC '05**

Publisher: Winter Simulation Conference

Full text available: pdf(509.67 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

The development of an advanced visualization and simulation tool for first responder exercises and education is presented. This tool exploits cutting edge computer graphics, physics-based effects modeling, virtual reality, and gaming technologies to establish a system that can eventually be used for the administrative planning and training of first responders in homeland security, homeland defense, and combating terrorism communities.

19 The impact of query structure and query expansion on retrieval performance



Jaana Kekäläinen, Kalervo Järvelin

August 1998 **Proceedings of the 21st annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '98**

Publisher: ACM Press

Full text available: pdf(1.11 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

20 Program analysis - A method for the verification of software for the control of a nuclear reactor



W. Ehrenberger, G. Rauch, K. Okroy

October 1976 **Proceedings of the 2nd international conference on Software engineering ICSE '76**

Publisher: IEEE Computer Society Press

Full text available: pdf(394.95 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The number of tests, which are necessary to prove the performance of a program, can be reduced to an executable number, if the structure of the program is investigated. The analysis starts from the memory dump. The program is first divided into those pieces, which are without labels or branchings. Then the mappings of the program and their input and output areas are identified, further those areas which influence branchings. The next

step states, which ranges of values in the individual are ...

Keywords: Process computers, Program analysis, Program testing, Reactor safety, Software reliability, User programs, Verification

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1 [The role of computer systems in the nuclear power debate](#)



Kevin W. Bowyer

 April 1980 **ACM SIGCAS Computers and Society**, Volume 10 Issue 3-4

Publisher: ACM Press

 Full text available: [pdf\(489.92 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

One of the primary reasons for the current "decline" of nuclear power is that reactors have not operated reliably. This unreliability has raised questions of both safety and economics. Computer systems have been a part of this failure of technology. If nuclear power is to be revived as an energy option for our country, both the quantity and quality of computer applications must increase.

2 [Abstracts— additional nuclear reactor codes](#)



Virginia Nather, Ward Sangren

 January 1960 **Communications of the ACM**, Volume 3 Issue 1

Publisher: ACM Press

 Full text available: [pdf\(940.91 KB\)](#) Additional Information: [full citation](#)

3 [Abstracts—nuclear reactor codes](#)



Virginia Nather, Ward Sangren

 January 1959 **Communications of the ACM**, Volume 2 Issue 1

Publisher: ACM Press

 Full text available: [pdf\(3.51 MB\)](#) Additional Information: [full citation](#)

4 [A preprocessor for structural analysis programs](#)



Peter K. Ho

 June 1976 **Proceedings of the 13th conference on Design automation DAC '76**

Publisher: ACM Press

 Full text available: [pdf\(589.56 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This preprocessor generates and updates input data on the geometry and properties of a structure and its foundation, and on gravity, seismic and other loadings.

5 The applied mathematics laboratory of the David W. Taylor Model Basin



Morris Richstone

September 1961 **Communications of the ACM**, Volume 4 Issue 9

Publisher: ACM Press

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6 Computer system reliability and nuclear war



Alan Borning

February 1987 **Communications of the ACM**, Volume 30 Issue 2

Publisher: ACM Press

Full text available: pdf(2.50 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Given the devastating consequences of nuclear war, it is appropriate to look at current and planned uses of computers in nuclear weapons command and control systems, and to examine whether these systems can fulfill their intended roles.

7 A systematic approach to the development and validation of critical software for nuclear power plants



C. V. Ramamoorthy, F. B. Bastani, J. M. Favaro, Y. R. Mok, C. W. Nam, K. Suzuki

September 1979 **Proceedings of the 4th international conference on Software engineering ICSE '79**

Publisher: IEEE Press

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The power industry is becoming increasingly interested in the use of digital computers within nuclear plant protection systems in order to satisfy increased safety requirements, provide greater operating flexibility, minimize spurious forced outages, and (in conjunction with multiplexing) to meet separation requirements. However, the development and licensing of digital safety systems has been hindered to date by the difficulty of validating the software. A methodology is propose ...

8 Highly vectorized algorithm for transient simulation of space reactor systems



B. Nassersharif, J. S. Peery, M. D. DeHart

November 1988 **Proceedings of the 1988 ACM/IEEE conference on Supercomputing Supercomputing '88**

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Current interest in the application of nuclear reactor driven power systems to space missions has generated a need for an accurate systems model which is capable of handling the nonlinear transient simulation of such systems [1],[2]. A project to develop a code specifically designed to model and analyze space reactor systems is currently ongoing at Texas A&M. This code, named CENTAR (Code for Extended Nonlinear Transient Analysis of Extraterrestrial Reactors [3],[4]), is written especia ...

9 Illustrative risks to the public in the use of computer systems and related technology



Peter G. Neumann

January 1996 **ACM SIGSOFT Software Engineering Notes**, Volume 21 Issue 1

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10 Illustrative risks to the public in the use of computer systems and related technology 

Peter G. Neumann

January 1994 **ACM SIGSOFT Software Engineering Notes**, Volume 19 Issue 1


Publisher: ACM Press

Full text available:  [pdf\(2.24 MB\)](#) Additional Information: [full citation](#), [citations](#), [index terms](#)11 Illustrative risks to the public in the use of computer systems and related technology 

Peter G. Neumann

January 1992 **ACM SIGSOFT Software Engineering Notes**, Volume 17 Issue 1

Publisher: ACM Press

Full text available:  [pdf\(1.65 MB\)](#) Additional Information: [full citation](#), [citations](#), [index terms](#)12 Seeing, hearing, and touching: putting it all together Brian Fisher, Sidney Fels, Karon MacLean, Tamara Munzner, Ronald Rensink
August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**

Publisher: ACM Press

Full text available:  [pdf\(20.64 MB\)](#) Additional Information: [full citation](#)13 Software safety in embedded computer systems 

Nancy G. Leveson

February 1991 **Communications of the ACM**, Volume 34 Issue 2


Publisher: ACM Press

Full text available:  [pdf\(2.83 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)14 The development of the SIMULA languages 

Kristen Nygaard, Ole-Johan Dahl

January 1978 **ACM SIGPLAN Notices , The first ACM SIGPLAN conference on History of programming languages HOPL-1**, Volume 13 Issue 8

Publisher: ACM Press

Full text available:  [pdf\(2.83 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The organizers of this conference have told us that we should write at least 25 pages of manuscript, but that we may produce as many pages more as we wanted. Perhaps they did not envisage the possible consequences, but we have taken their words at face value. This paper has implied a vast amount of work and archeological activities. We are grateful to SIGPLAN for defining a task to which resources had to be allocated by our institutions and which forced us to write down an account ...

15 The expanding world of computers 

E. L. Harder

April 1968 **Communications of the ACM**, Volume 11 Issue 4

Publisher: ACM Press

Full text available:  [pdf\(2.70 MB\)](#) Additional Information: [full citation](#), [abstract](#)

The onward sweep of automatic processing of information is impeded by nine principal barriers: geography, cost, problem complexity, man-machine communication, inadequate sensors, lack of understanding, distance, time, and size. The main incentive for breaching

these barriers is the universal need for processing information, ever more urgent as the greater part of human work activity changes from production to service. Computer developments in hardware, programming, time-sharing, ...

Keywords: barriers, computer science, computer-aided design, data communication, developments, education, forecast, introduction, philosophy, problem-oriented languages, survey

16 Advanced topics on clothing simulation and animation: Robust treatment of collisions, contact and friction for cloth animation



Robert Bridson, Ronald Fedkiw, John Anderson
July 2005 **ACM SIGGRAPH 2005 Courses SIGGRAPH '05**

Publisher: ACM Press

Full text available: [pdf\(279.40 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We present an algorithm to efficiently and robustly process collisions, contact and friction in cloth simulation. It works with any technique for simulating the internal dynamics of the cloth, and allows true modeling of cloth thickness. We also show how our simulation data can be post-processed with a collision-aware subdivision scheme to produce smooth and interference free data for rendering.

Keywords: cloth, collision detection, collision response, contacts, kinetic friction, physically based animation, static friction

17 Robust treatment of collisions, contact and friction for cloth animation



Robert Bridson, Ronald Fedkiw, John Anderson
July 2002 **ACM Transactions on Graphics (TOG) , Proceedings of the 29th annual conference on Computer graphics and interactive techniques SIGGRAPH '02**, Volume 21 Issue 3

Publisher: ACM Press

Full text available: [pdf\(3.74 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citings](#), [index terms](#)

We present an algorithm to efficiently and robustly process collisions, contact and friction in cloth simulation. It works with any technique for simulating the internal dynamics of the cloth, and allows true modeling of cloth thickness. We also show how our simulation data can be post-processed with a collision-aware subdivision scheme to produce smooth and interference free data for rendering.

Keywords: cloth, collision detection, collision response, contacts, kinetic friction, physically based animation, static friction

18 Risks to the public in computer systems



Peter G. Neumann
October 1986 **ACM SIGSOFT Software Engineering Notes**, Volume 11 Issue 5

Publisher: ACM Press

Full text available: [pdf\(2.19 MB\)](#) Additional Information: [full citation](#), [index terms](#)

19 STATEMATE applied to statistical software testing



P. Thévenod-Fosse, H. Waeselynck
July 1993 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 1993 ACM**

SIGSOFT international symposium on Software testing and analysis ISSTA

'93, Volume 18 Issue 3

Publisher: ACM PressFull text available:  [pdf\(1.31 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper is concerned with the use of statistical testing as a verification technique for complex software. Statistical testing involves exercising a program with random inputs, the test profile and the number of generated inputs being determined according to criteria based on program structure or software functionality. In case of complex programs, the probabilistic generation must be based on a black box analysis, the adopted criteria being defined from behavior model ...

20 [Level set and PDE methods for computer graphics](#)David Breen, Ron Fedkiw, Ken Museth, Stanley Osher, Guillermo Sapiro, Ross Whitaker
August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04****Publisher:** ACM PressFull text available:  [pdf\(17.07 MB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#)

Level set methods, an important class of partial differential equation (PDE) methods, define dynamic surfaces implicitly as the level set (iso-surface) of a sampled, evolving nD function. The course begins with preparatory material that introduces the concept of using partial differential equations to solve problems in computer graphics, geometric modeling and computer vision. This will include the structure and behavior of several different types of differential equations, e.g. the level set eq ...

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1 [Seeing, hearing, and touching: putting it all together](#)



Brian Fisher, Sidney Fels, Karon MacLean, Tamara Munzner, Ronald Rensink
August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**

Publisher: ACM Press

Full text available: [pdf\(20.64 MB\)](#) Additional Information: [full citation](#)

2 [Computer system reliability and nuclear war](#)



Alan Borning
February 1987 **Communications of the ACM**, Volume 30 Issue 2

Publisher: ACM Press

Full text available: [pdf\(2.50 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Given the devastating consequences of nuclear war, it is appropriate to look at current and planned uses of computers in nuclear weapons command and control systems, and to examine whether these systems can fulfill their intended roles.

3 [Level set and PDE methods for computer graphics](#)



David Breen, Ron Fedkiw, Ken Museth, Stanley Osher, Guillermo Sapiro, Ross Whitaker
August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**

Publisher: ACM Press

Full text available: [pdf\(17.07 MB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#)


Level set methods, an important class of partial differential equation (PDE) methods, define dynamic surfaces implicitly as the level set (iso-surface) of a sampled, evolving nD function. The course begins with preparatory material that introduces the concept of using partial differential equations to solve problems in computer graphics, geometric modeling and computer vision. This will include the structure and behavior of several different types of differential equations, e.g. the level set eq ...

4 [Abstracts— additional nuclear reactor codes](#)



Virginia Nather, Ward Sangren
January 1960 **Communications of the ACM**, Volume 3 Issue 1

Publisher: ACM Press

Full text available:  [pdf\(940.91 KB\)](#) Additional Information: [full citation](#)

5 Special issue: AI in engineering



D. Sriram, R. Joobbani
April 1985 **ACM SIGART Bulletin**, Issue 92

Publisher: ACM Press

Full text available:  [pdf\(8.79 MB\)](#) Additional Information: [full citation](#), [abstract](#)


The papers in this special issue were compiled from responses to the announcement in the July 1984 issue of the SIGART newsletter and notices posted over the ARPAnet. The interest being shown in this area is reflected in the sixty papers received from over six countries. About half the papers were received over the computer network.

6 On building systems that will fail



Fernando J. Corbató
September 1991 **Communications of the ACM**, Volume 34 Issue 9

Publisher: ACM Press


Full text available:  [pdf\(1.02 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

7 Final report of the GSPC state-of-the-art subcommittee



R. H. Ewald, R. Fryer
June 1978 **ACM SIGGRAPH Computer Graphics**, Volume 12 Issue 1-2

Publisher: ACM Press

Full text available:  [pdf\(7.85 MB\)](#) Additional Information: [full citation](#), [abstract](#)

This paper presents the final report of the ACM/SIGGRAPH Graphics Standards Planning Committee (GSPC) State-of-the-Art Subcommittee. This group's charter was to compare existing vector-oriented graphics packages to determine their similarities and differences. Eight graphics packages and the GSPC "Core System" were selected for review.

8 Collision detection and proximity queries



Sunil Hadap, Dave Eberle, Pascal Volino, Ming C. Lin, Stephane Redon, Christer Ericson
August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**

Publisher: ACM Press

Full text available:  [pdf\(11.22 MB\)](#) Additional Information: [full citation](#), [abstract](#)

This course will primarily cover widely accepted and proved methodologies in collision detection. In addition more advanced or recent topics such as continuous collision detection, ADFs, and using graphics hardware will be introduced. When appropriate the methods discussed will be tied to familiar applications such as rigid body and cloth simulation, and will be compared. The course is a good overview for those developing applications in physically based modeling, VR, haptics, and robotics.

9 Numerical computations: its nature and research directions



J. R. Rice, C. W. Gear, J. Ortega, B. Parlett, M. Schultz, L. F. Shampine, P. Wolfe, J. F. Traub
February 1979 **ACM SIGNUM Newsletter**, Volume 14 Issue si-1

Publisher: ACM Press


Full text available:  [pdf\(4.43 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

This report on research in numerical computation is part of the Computer Science and Engineering Research Study (COSERS) which is aimed at technically educated people

outside the Computer Science field. This goal led the panel to face many difficult choices between precise, but excessively technical, descriptions and looser, but more accessible expositions. The panel hopes that all readers will keep this in mind.


10 The elements of nature: interactive and realistic techniques



 Oliver Deussen, David S. Ebert, Ron Fedkiw, F. Kenton Musgrave, Przemyslaw Prusinkiewicz, Doug Roble, Jos Stam, Jerry Tessendorf

August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**

Publisher: ACM Press

Full text available:  [pdf\(17.65 MB\)](#) Additional Information: [full citation](#), [abstract](#)

This updated course on simulating natural phenomena will cover the latest research and production techniques for simulating most of the elements of nature. The presenters will provide movie production, interactive simulation, and research perspectives on the difficult task of photorealistic modeling, rendering, and animation of natural phenomena. The course offers a nice balance of the latest interactive graphics hardware-based simulation techniques and the latest physics-based simulation techni ...

11 Digital control of industrial processes



 Cecil L. Smith
September 1970 **ACM Computing Surveys (CSUR)**, Volume 2 Issue 3

Publisher: ACM Press

Full text available:  [pdf\(2.11 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

12 Simulation documents available: from NTIS



 Tuncer I. Oren
January 1975 **ACM SIGSIM Simulation Digest**, Volume 6 Issue 2-3

Publisher: ACM Press

Full text available:  [pdf\(1.06 MB\)](#) Additional Information: [full citation](#), [abstract](#)

The NTIS (National Technical Information Service) collection includes (i) Government-sponsored research and development reports, (ii) Government analyses prepared by Federal agencies, their contractors or grantees, (iii) Federally sponsored translations, and (iv) some reports written in foreign languages. The NTIS reports exist in paper copy or in microfiche unless otherwise specified and are available indefinitely. To order the documents contact: NTIS, P.O. Box 1552, Springfield, Virginia 22151 ...

13 Illustrative risks to the public in the use of computer systems and related technology



 Peter G. Neumann
January 1994 **ACM SIGSOFT Software Engineering Notes**, Volume 19 Issue 1

Publisher: ACM Press


Full text available:  [pdf\(2.24 MB\)](#) Additional Information: [full citation](#), [citations](#), [index terms](#)

14 Abstracts—nuclear reactor codes



 Virginia Nather, Ward Sangren
January 1959 **Communications of the ACM**, Volume 2 Issue 1

Publisher: ACM Press

Full text available:  [pdf\(3.51 MB\)](#) Additional Information: [full citation](#)



Electronic Computers: A Historical Survey

Saul Rosen

March 1969 **ACM Computing Surveys (CSUR)**, Volume 1 Issue 1

Publisher: ACM Press

Full text available: [pdf\(2.45 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



16 Illustrative risks to the public in the use of computer systems and related technology



Peter G. Neumann

January 1992 **ACM SIGSOFT Software Engineering Notes**, Volume 17 Issue 1

Publisher: ACM Press

Full text available: [pdf\(1.65 MB\)](#) Additional Information: [full citation](#), [citations](#), [index terms](#)

17 Computer technology in communist China, 1956-1965



Donald G. Audette

September 1966 **Communications of the ACM**, Volume 9 Issue 9

Publisher: ACM Press

Full text available: [pdf\(1.02 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

Based on information from translations of Communist Chinese news items and periodical literature for the 1956 through 1965 period, computer technology in China is reviewed under the following headings: (1) initial planning, organization and educational aspects of computer technology and automation; 2) machine development progress: two major specific machines in 1958-59, with Soviet aid; a vacuum in 1960-64 due to the withdrawal of Soviet aid; then presumably all-Chinese-made machines from 1 ...

18 High dynamic range imaging



Paul Debevec, Erik Reinhard, Greg Ward, Sumanta Pattanaik

August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**

Publisher: ACM Press

Full text available: [pdf\(20.22 MB\)](#) Additional Information: [full citation](#), [abstract](#)

Current display devices can display only a limited range of contrast and colors, which is one of the main reasons that most image acquisition, processing, and display techniques use no more than eight bits per color channel. This course outlines recent advances in high-dynamic-range imaging, from capture to display, that remove this restriction, thereby enabling images to represent the color gamut and dynamic range of the original scene rather than the limited subspace imposed by current monitor ...

19 Special issue on knowledge representation



Ronald J. Brachman, Brian C. Smith

February 1980 **ACM SIGART Bulletin**, Issue 70

Publisher: ACM Press

Full text available: [pdf\(13.13 MB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#)

In the fall of 1978 we decided to produce a special issue of the SIGART Newsletter devoted to a survey of current knowledge representation research. We felt that there were two useful functions such an issue could serve. First, we hoped to elicit a clear picture of how people working in this subdiscipline understand knowledge representation research, to illuminate the issues on which current research is focused, and to catalogue what approaches and techniques are currently being developed. Second ...

20 The development of the SIMULA languages



Kristen Nygaard, Ole-Johan Dahl

January 1978 **ACM SIGPLAN Notices**, The first ACM SIGPLAN conference on History of programming languages HOPL-1, Volume 13 Issue 8

Publisher: ACM Press

Full text available: pdf(2.83 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The organizers of this conference have told us that we should write at least 25 pages of manuscript, but that we may produce as many pages more as we wanted. Perhaps they did not envisage the possible consequences, but we have taken their words at face value. This paper has implied a vast amount of work and archeological activities. We are grateful to SIGPLAN for defining a task to which resources had to be allocated by our institutions and which forced us to write down an account ...

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| <input type="checkbox"/> | L6 | nuclear and reactor and fuel and spring? and shear\$ and stress | 66 |
| <input type="checkbox"/> | L5 | L3 and (spring? same shear\$ stress\$) | 1 |
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| <input type="checkbox"/> | L3 | nuclear reactor and spring | 3248 |
| <input type="checkbox"/> | L2 | callens.in. and nuclear reactor and spring | 2 |
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☐ 1. Document ID: US 20060165208 A1

L4: Entry 1 of 2

File: PGPB

Jul 27, 2006

PGPUB-DOCUMENT-NUMBER: 20060165208

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060165208 A1

TITLE: Method for designing a nuclear fuel assembly with damping guide tube

PUBLICATION-DATE: July 27, 2006

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY |
|--------------------|------|-------|---------|
| Callens; Catherine | Lyon | | FR |
| Segura; Helene | Lyon | | FR |

US-CL-CURRENT: [376/234](#)

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWC | Draw D |
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☐ 2. Document ID: US 20050157835 A1

L4: Entry 2 of 2

File: PGPB

Jul 21, 2005

PGPUB-DOCUMENT-NUMBER: 20050157835

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050157835 A1

TITLE: Method for designing a spider spring of a bundle controlling a nuclear fuel assembly, corresponding system, computer programme and product

PUBLICATION-DATE: July 21, 2005

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY |
|--------------------|------|-------|---------|
| Callens, Catherine | Lyon | | FR |
| Segura, Helene | Lyon | | FR |

US-CL-CURRENT: [376/327](#)

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|-----|--------|
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☐ 1. Document ID: US 4879899 A

L5: Entry 1 of 1

File: USPT

Nov 14, 1989

US-PAT-NO: 4879899

DOCUMENT-IDENTIFIER: US 4879899 A

TITLE: Shear stress gauge

DATE-ISSUED: November 14, 1989

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|-----------------|------------|-------|----------|---------|
| Leehey, Patrick | Swampscott | MA | | |

US-CL-CURRENT: 73/147

| | | | | | | | | | | | | |
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| SPRINGG | 6 |
| SPRINGI | 10 |
| SPRINGL | 3 |
| SPRINGM | 1 |
| SPRINGN | 5 |
| SPRINGR | 3 |
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L7: Entry 1 of 8

File: PGPB

Jul 27, 2006

PGPUB-DOCUMENT-NUMBER: 20060165208

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060165208 A1

TITLE: Method for designing a nuclear fuel assembly with damping guide tube

PUBLICATION-DATE: July 27, 2006

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY |
|--------------------|------|-------|---------|
| Callens; Catherine | Lyon | | FR |
| Segura; Helene | Lyon | | FR |

US-CL-CURRENT: 376/234

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|--------|
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☐ 2. Document ID: US 20060041448 A1

L7: Entry 2 of 8

File: PGPB

Feb 23, 2006

PGPUB-DOCUMENT-NUMBER: 20060041448

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060041448 A1

TITLE: Number of new and unique manufacturing and assembly methods and processes to cost effectively refit and market legacy implements like "The Gilhoolie" presently names "The Wili Grip" TM

PUBLICATION-DATE: February 23, 2006

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY |
|-----------------------------|---------------|-------|---------|
| Patterson; Robbie Lynne | Potomac | MD | US |
| Stephens; Richard Lewis JR. | Silver Spring | MD | US |
| Walker; Richard C. | Waldorf | MD | US |

US-CL-CURRENT: 705/1

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|---------|
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|---------|

☐ 3. Document ID: US 20050157835 A1

L7: Entry 3 of 8

File: PGPB

Jul 21, 2005

PGPUB-DOCUMENT-NUMBER: 20050157835

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050157835 A1

TITLE: Method for designing a spider spring of a bundle controlling a nuclear fuel
assembly, corresponding system, computer programme and product

PUBLICATION-DATE: July 21, 2005

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY |
|--------------------|------|-------|---------|
| Callens, Catherine | Lyon | | FR |
| Segura, Helene | Lyon | | FR |

US-CL-CURRENT: 376/327

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|---------|
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|---------|

☐ 4. Document ID: US 5742653 A

L7: Entry 4 of 8

File: USPT

Apr 21, 1998

US-PAT-NO: 5742653

DOCUMENT-IDENTIFIER: US 5742653 A

TITLE: Vertical and lateral restraint stabilizer for core shroud of boiling water
reactor

DATE-ISSUED: April 21, 1998

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|------------------------|-------------|-------|----------|---------|
| Erbes; John Geddes | Mt. View | CA | | |
| Charnley; James Edward | Nevada City | CA | | |
| Kobsa; Irvin Raymond | San Jose | CA | | |

US-CL-CURRENT: 376/302; 376/285

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De |
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|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|---------|

☐ 5. Document ID: US 5182484 A

L7: Entry 5 of 8

File: USPT

Jan 26, 1993

US-PAT-NO: 5182484
DOCUMENT-IDENTIFIER: US 5182484 A

TITLE: Releasing linear actuator

DATE-ISSUED: January 26, 1993

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|-----------------|----------|-------|----------|---------|
| Culp; Gordon W. | Van Nuys | CA | | |

US-CL-CURRENT: 310/328

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Abstracts | Attachments | Claims | KWIC | Draw. De |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|----------|
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|----------|

☐ 6. Document ID: US 4673544 A

L7: Entry 6 of 8

File: USPT

Jun 16, 1987

US-PAT-NO: 4673544
DOCUMENT-IDENTIFIER: US 4673544 A

TITLE: Pushing device for sliding fuel rods out of a nuclear reactor fuel assembly

DATE-ISSUED: June 16, 1987

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|-------------|----------|-------|----------|---------|
| Rohr; Franz | Erlangen | | | DE |

US-CL-CURRENT: 376/261; 198/719, 29/723, 376/268, 376/271, 976/DIG.274

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Abstracts | Attachments | Claims | KWIC | Draw. De |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|----------|
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|----------|

☐ 7. Document ID: US 4411862 A

L7: Entry 7 of 8

File: USPT

Oct 25, 1983

US-PAT-NO: 4411862
DOCUMENT-IDENTIFIER: US 4411862 A

**** See image for Certificate of Correction ****

TITLE: Spacer grating for fuel element in a nuclear reactor

DATE-ISSUED: October 25, 1983

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|----------------------|------------|-------|----------|---------|
| Leclercq; Joseph | St. Didier | | | FR |
| Le Pargneux; Jacques | Lyons | | | FR |

| | | |
|-------------------|-------------|----|
| Feutrel; Claude | Vauhallan | FR |
| Lestiboudois; Guy | Paris | FR |
| Chantant; Michel | Bois d'Arcy | FR |

US-CL-CURRENT: 376/442; 376/441, 976/DIG.71, 976/DIG.77, 976/DIG.81

| | | | | | | | | | | | | |
|------|-------|----------|-------|--------|----------------|------|-----------|----------|-------------|--------|------|---------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | STRESS\$ | Attachments | Claims | KWIC | Draw De |
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☐ 8. Document ID: US 4297324 A

L7: Entry 8 of 8

File: USPT

Oct 27, 1981

US-PAT-NO: 4297324

DOCUMENT-IDENTIFIER: US 4297324 A

TITLE: Apparatus for the continuous processing of compounds in a liquid

DATE-ISSUED: October 27, 1981

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|------------------|------------------|-------|----------|---------|
| Sauvage; Henri | Bagnols sur Ceze | | | FR |
| Tarnero; Maurice | Bagnols sur Ceze | | | FR |

US-CL-CURRENT: 422/268; 198/493, 198/778, 209/158, 210/178, 366/227, 376/308,
422/257, 422/260, 976/DIG.275, 976/DIG.278

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|------|-------|----------|-------|--------|----------------|------|-----------|----------|-------------|--------|------|---------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | STRESS\$ | Attachments | Claims | KWIC | Draw De |
|------|-------|----------|-------|--------|----------------|------|-----------|----------|-------------|--------|------|---------|

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|-------|---------------------|-------|----------|-----------|---------------|
| Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS |
|-------|---------------------|-------|----------|-----------|---------------|

| Term | Documents |
|--|-----------|
| STRESS\$ | 0 |
| STRESS | 436072 |
| STRESSA | 1 |
| STRESSABIASB | 1 |
| STRESSABIITIES | 3 |
| STRESSABILITIES | 6 |
| STRESSABILITY | 200 |
| STRESSABLE | 352 |
| STRESSABLY | 2 |
| STRESSABSORBING | 5 |
| STRESSACTIVATED | 5 |
| (L6 AND (STRESS\$ SAME SPRING?)).PGPB,USPT. | 8 |